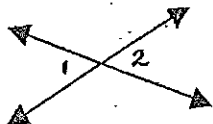


Support the following statements with a property or a postulate.

13. If $a = b$ then $b = a$
14. If $m\angle 2 = m\angle 1$ and $m\angle 1 = m\angle 5$, then $m\angle 2 = m\angle 5$
15. If C is between A and B then $AB = AC + BC$
16. If $m\angle 1 + m\angle 2 = m\angle A$, then $m\angle 1 = m\angle A - m\angle 2$
17. $m\angle F = m\angle F$

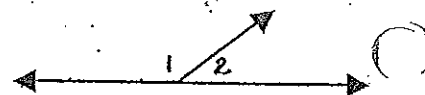
Solve for the measure of each angle. State the relationship and show work!

18. $m\angle 1 = 5x - 7$
 $m\angle 2 = 3x + 5$



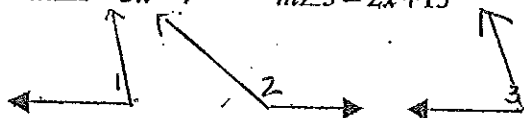
$m\angle 1 =$ _____ $m\angle 2 =$ _____

19. $m\angle 1 = 3x$
 $m\angle 2 = x$



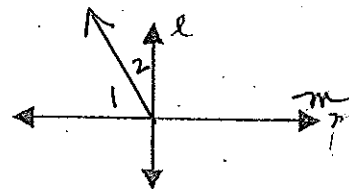
$m\angle 1 =$ _____ $m\angle 2 =$ _____

20. $\angle 1$ is supplementary to $\angle 2$
 $\angle 2$ is supplementary to $\angle 3$
 $m\angle 1 = 3x - 7$ $m\angle 3 = 2x + 13$



$m\angle 1 =$ _____ $m\angle 2 =$ _____

21. $m\angle 1 = 5x - 10$
 $m\angle 2 = 3x + 36$
 $l \perp m$

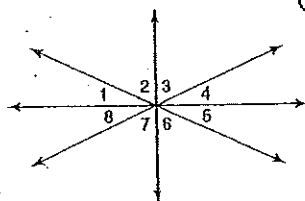


$m\angle 1 =$ _____ $m\angle 2 =$ _____

22. What theorem supports # 18?
23. What theorem supports #19?
24. What theorem supports #21?
25. What statement is formed by switching the hypothesis with the conclusion?
26. What is the statement called that disproves a conjecture?
27. If A is between X and P, then _____ + _____ = _____ by the _____ Postulate.

28. Which statement is formed by negating the conditional? _____

Find the measure of each angle if $m\angle 1 = 23$, $m\angle 2 = m\angle 3$, and $\angle 3$ and $\angle 4$ are complementary.



29. $m\angle 2$
30. $m\angle 4$
31. $m\angle 6$
32. $m\angle 3$
33. $m\angle 5$
34. $m\angle 7$

(35) Given: $3 + 7(2x - 5) = 10$

Prove: $x = 3$

- | | |
|------------------------|----------|
| 1) _____ | 1) Given |
| 2) $3 + 14x - 35 = 10$ | 2) _____ |
| 3) $14x = 42$ | 3) _____ |
| 4) $x = 3$ | 4) _____ |